

<b>INFORMATION DISCLOSURE CITATION</b> (Use several sheets if necessary)				Atty. Docket # ACA 6263 US		Serial No. 10/070,282	
PTO-1449 (modified)				Applicant Shankar Subramanian et al.			
				Filing Date April 15, 2002		Group Art Unit 1712	

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U.S. PATENT DOCUMENTS							
Init	Document No.	Issue Date	Name	Class	Subclass	Filing Date	
P	2,748,139	5/29/1956	Scudi et al.	260	295.5		
	3,306,858	2/28/1967	Oberle	252	99		
	3,849,348	11/19/1974	Hewitt et al.	252	547		
	4,077,990	3/7/1978	Prodo et al.	260	404.5		
	4,113,631	9/12/1978	Thompson	252	8.55		
	4,654,158	3/31/1987	Shepherd, Jr.	252	91		
P	4,737,296	4/12/1988	Watkins	252	8.553		
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	Document No.	Publ. Date	Country	Class	Subclass	Translation	
						Y	N
P	GB 1 212 782	11/18/70	Great Britain	C08G	17/16		
P	GB 1 404 335	08/28/75	Great Britain	F17D	5/02		
P	GB 2 018 863 A	10/24/79	Great Britain	E21B	43/27		
P	GB 2 119 358 A	11/16/83	Great Britain	C04B	21/00		
P	EP 0 070 076 A2	01/19/81	Europe	C11D	1/86		
P	EP 0 474 284 A1	03/11/92	Europe	E21B	43/22		
P	JP 5-93181	04/16/93	Japan	C09K	3/00		X
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, etc.)							
Derwent Abstract of JP 5093181							
EXAMINER <i>P. Tucker</i>				DATE CONSIDERED <i>3/07</i>			

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Init	Document No.	Issue Date	Name	Class	Subclass	Filing Date	
<input checked="" type="checkbox"/>	4,745,976	5/24/1988	Harwell et al.	166	273		
<input checked="" type="checkbox"/>	4,806,256	2/21/1989	Rose et al.	252	71		
<input checked="" type="checkbox"/>	4,960,934	10/2/1990	Smith et al.	564	298		
<input checked="" type="checkbox"/>	5,101,903	4/7/1992	Llave et al.	166	294		
<input checked="" type="checkbox"/>	5,149,463	9/22/1992	Peterson	252	301.21		
<input checked="" type="checkbox"/>	5,246,698	9/21/1993	Leshchiner et al.	424	78.08		
<input checked="" type="checkbox"/>	5,462,698	10/31/1995	Kobayakawa et al.	252	586		
<input checked="" type="checkbox"/>	6,177,388 B1	1/23/2001	Cheung et al.	510	101		
<input checked="" type="checkbox"/>	6,239,183 B1	5/29/2001	Farmer et al.	516	102		
<input checked="" type="checkbox"/>	6,506,710 B1	1/14/2003	Hoey et al.	507	242		
<b>FOREIGN PATENT DOCUMENTS</b>							
	Document No.	Publ. Date	Country	Class	Subclass	Translation	
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<input checked="" type="checkbox"/>	JP 9-3491	1/7/1997	Japan	C11D	1/94		X
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<input checked="" type="checkbox"/>	WO 94/17154	8/4/1994	PCT	C09K	7/08		
<input checked="" type="checkbox"/>	WO 97/33960	9/18/1997	PCT	C11D	1/75		X
<b>OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, etc.)</b>							
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<input checked="" type="checkbox"/>	Derwent Abstract of JP 10197306						
<input checked="" type="checkbox"/>	Derwent Abstract of WO 1997033960						
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PT	4,107,328	8/15/1978	Michaels	424	316		
	4,587,030	5/6/1986	Casey	252	92		
	5,263,540	11/23/1993	Dovan et al.	166	278		
	5,441,664	8/15/1995	Blanvalet et al.	252	117		
	5,580,849	12/3/1996	Dyet et al.	510	427		
	5,678,632	10/21/1997	Moses et al.	166	307		
	5,797,456	8/25/1998	Mokadam	166	307		
	5,919,312	7/6/1999	Wierenga et al.	134	34		
	5,998,347	12/7/1999	D'Ambrogio et al.	510	237		
PT	6,153,572	11/28/2000	Stamm	510	193		
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						Y	N
PT	GB 2 354 541 A	6/28/2001	Great Britain	E21B	43/26		
PT	JP 11-152493	6/8/1999	Japan	C11D	1/75		X
PT	WO 00/17303	3/30/2000	PCT	C11D	11/00		
PT	WO 01/07010 A1	2/1/2001	PCT	A61K	7/50		
	WO 01/30950 A1	5/3/2001	PCT	C11D	1/72	NOT RECEIVED	
PT	WO 01/81499 A2	11/1/2001	PCT	C09K	7/00		
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PT Derwent Abstract of JP 11152493							
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Init	Document No.	Issue Date	Name	Class	Subclass	Filing Date
PT	6,244,343 B1	6/12/2001	Brothers et al.	166	293	
	6,277,803 B1	8/21/2001	Tarng et al.	510	237	
	6,306,800 B1	10/23/2001	Samuel et al.	507	129	
	6,313,084 B1	11/6/2001	D'Ambrogio et al.	510	425	
	6,350,721 B1	2/26/2002	Fu et al.	507	242	
	6,645,912 B1	11/11/2003	Mille et al.	504	206	
	6,703,352 B2	3/9/2004	Dahayanake et al.	507	241	
	7,060,661 B2	6/13/2006	Dobson, Sr. et al.	507	245	
	6,831,108 B2	12/14/2004	Dahanayake et al.	516	69	
	2003/0019627 A1	1/30/2003	Qu et al.	166	281	
	2004/0176478 A1	9/9/2004	Dahayanake et al.	516	77	
PT	4,604,424	8/5/1986	Cole et al.	524	862	

  

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PT	WO 99/35120	7/15/1999	PCT	C07C	219/06		
PT	WO 01/18147 A1	3/15/2001	PCT	C09K	7/02		
PT	WO 02/064945 A1	8/22/2002	PCT	E21B	43/26		
PT	FR 2412924	7/20/1979	France	H01G	4/18		X

  

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PT	Kalur et al., "Viscosity Increase with Temperature in Cationic Surfactant Solutions Due to the Growth of Wormlike Micelles," Langmuir November 22, 2005, vol. 21, no. 24, pages 10998-11004
PT	Derwent Abstract of FR 2412924

  

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P	4,772,644	9/20/1988	Itoh et al.	523	443		
	4,782,893	11/8/1988	Thomas	165	185		
	5,781,412	7/14/1998	de Sargo	361	704		
	5,075,038	12/24/199	Cole et al.	252	514		
	5,049,943	9/17/1991	Menjo et al.	355	284		
	3,323,593	3/16/1964	Foshee et al.	166	42		
	3,625,284	12/7/1971	Gogarty et al.	166	273		
	3,637,015	1/25/1972	Holm	166	273		
	3,637,016	1/25/1972	Holm	166	273		
	3,670,819	6/20/1972	Dauben et al.	166	305 R		
	3,677,343	7/18/1972	Showalter	166	252		
	3,797,574	3/19/1974	Feuerbacher et al.	166	274		
<b>FOREIGN PATENT DOCUMENTS</b>							
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						Y	N
	EP 0 835 983 B1	12/17/2003	European	E21B	43/26		
	WO 96/34078	10/31/1996	PCT	C11D	1/66		
	WO 03/093641 A1	11/13/2003	PCT	E21B	43/27		
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	Marczak et al., "Characterization of Surfactant Gelled Fracturing Fluids," SPE 63240; pages 1-8 (October 1-4, 2000)						
	Nehmer et al., "Viscoelastic Gravel-Pack Carrier Fluid," SPE 17168; pages 217-226 (February 8-9, 1988)						
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	3,920,074	11/18/1975	Sarem	166	274		
	4,071,457	1/31/1978	Meister	252	8.55 D		
	4,120,356	10/17/1978	Meister	166	267		
	4,284,435	8/18/1981	Fox	134	2		
	4,287,950	9/8/1981	Baker et al.	166	273		
	4,464,268	8/7/1984	Schievelbein	252	8.55 B		
	4,514,310	4/30/1985	Heilweil	252	8.55 R		
	4,595,511	6/17/1986	Seybold et al.	252	8.55 B		
	4,624,314	11/25/1986	Clark	166	271		
	4,668,408	5/26/1987	McClaflin et al.	252	8.552		
	4,669,544	6/2/1987	Nimerick	166	300		
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						Y	N
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1	Raghavan et al., "Highly Viscoelastic Wormlike Micellar Solutions Formed by Cationic Surfactants with Long Unsaturated Tails," Langmuir pages 300-306 (2001)						
2	Stewart et al., "Use of Solids-free Viscous Carrying Fluid in Fracturing Applications: An Economic and Productivity Comparison in Shallow Completions," SPE 30114; pages 379-392 (May 15-18, 1995)						
3	Hoffmann, "Viscoelastic Surfactant Solutions," American Chemical Society, Structure and Flow in Surfactant Solutions; Ch. 1; (1994)						
4	Muzyczko et al., "Fatty Amidoamine Derivatives: N,N-Dimethyl-N-(3-alkylamidopropyl)amines and Their Salts," Journal of American Oil Chemists Society; pages 720-725 (November 1968)						
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<i>P</i>	4,690,217	9/1/1987	Taggart et al.	166	274		
	4,775,489	10/4/1988	Watkins et al.	252	8.552		
	4,979,564	12/25/1990	Kalpakci et al.	166	273		
	5,104,556	4/14/1992	Al-Yazdi	252	8.552		
	5,246,072	9/21/1993	Frazier, Jr. et al.	166	273		
	5,374,361	12/20/1994	Chan	507	211		
	5,388,646	2/14/1995	Hensley	166	271		
	5,458,197	10/17/1995	Chan	166	304		
	5,458,198	10/17/1995	Hashemi et al.	166	312		
	5,501,276	3/26/1996	Weaver et al.	166	291		
	5,551,516	9/3/1996	Norman et al.	166	308		
	5,564,500	10/15/1996	Rogers et al.	166	312		
	5,595,243	1/21/1997	Maki, Jr. et al.	166	177.2		
	5,602,083	2/11/1997	Gabrysch et al.	507	200		
	5,607,905	3/4/1997	Dobson, Jr. et al.	507	211		
<i>P</i>	5,627,144	5/6/1997	Urfer et al.	507	211		
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✓	5,670,460	9/23/1997	Neely et al.	507	203		
	5,678,631	10/21/1997	Salisbury et al.	166	304		
	5,830,831	11/3/1998	Chan et al.	507	211		
	5,977,032	11/2/1999	Chan	507	211		
	6,435,277 B1	8/20/2002	Qu et al.	166	281		
	6,972,274 B1	12/6/2005	Slikta et al.	507	240		
	4,061,580	12/6/1977	Jahnke	252	8.55 R		
	4,148,736	4/10/1979	Meister	252	8.55 R		
	4,591,447	5/27/1986	Kubala	252	8.55 C		
	4,898,725	2/6/1990	Hoeffkes et al.	424	70		
	5,019,281	5/28/1991	Singer et al.	252	8.8		
	5,964,295	10/12/1999	Brown et al.	166	308		
	5,979,557	11/9/1999	Card et al.	166	300		
	6,112,814	9/5/2000	Chan et al.	166	304		
	6,169,058 B1	1/2/2001	Le et al.	507	222		
✓	6,964,940 B1	11/15/2005	Treybig et al.	507	129		
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